

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|--|------------------|---------|------------------|
| L4 | 21 | (US-20040194070-\$ or US-20030093776-\$).did. or (US-4638423-\$ or US-5301302-\$ or US-5546552-\$ or US-5560013-\$ or US-5577231-\$ or US-5577233-\$ or US-5751982-\$ or US-5790825-\$ or US-5933622-\$ or US-6009261-\$ or US-6075937-\$ or US-6142682-\$ or US-6243668-\$ or US-6516295-\$ or US-6704925-\$ or US-6785801-\$ or US-5819063-\$ or US-6163764-\$ or US-4794522-\$).did. | US-PGPUB; USPAT | OR | OFF | 2005/06/24 18:04 |
| S98 | 10 | S89 and (instruction with (size length)) | US-PGPUB; USPAT | OR | OFF | 2005/06/24 14:53 |
| S97 | 8 | S89 and operand | US-PGPUB; USPAT | OR | OFF | 2005/06/24 14:53 |
| S96 | 11 | S89 and byte | US-PGPUB; USPAT | OR | OFF | 2005/06/24 14:52 |
| S95 | 4 | S89 and arrangement | US-PGPUB; USPAT | OR | OFF | 2005/06/24 14:48 |
| S89 | 20 | (US-20040194070-\$).did. or (US-4638423-\$ or US-5301302-\$ or US-5546552-\$ or US-5560013-\$ or US-5577231-\$ or US-5577233-\$ or US-5751982-\$ or US-5790825-\$ or US-5933622-\$ or US-6009261-\$ or US-6075937-\$ or US-6142682-\$ or US-6243668-\$ or US-6516295-\$ or US-6704925-\$ or US-6785801-\$ or US-5819063-\$ or US-6163764-\$ or US-4794522-\$).did. | US-PGPUB; USPAT | OR | OFF | 2005/06/24 14:48 |
| S77 | 18 | (US-20040194070-\$).did. or (US-4638423-\$ or US-5301302-\$ or US-5546552-\$ or US-5560013-\$ or US-5577231-\$ or US-5577233-\$ or US-5751982-\$ or US-5790825-\$ or US-5933622-\$ or US-6009261-\$ or US-6075937-\$ or US-6142682-\$ or US-6243668-\$ or US-6516295-\$ or US-6704925-\$ or US-6785801-\$ or US-5819063-\$).did. | US-PGPUB; USPAT | OR | OFF | 2005/06/24 14:29 |
| S88 | 50 | ("5539901" "5566121" "5566326" "5598553" "5604864" "5615328" "5630052" "5636227" "5644755" "5682481" "5694582" "5710934" "5720015" "5732201" "5749094" "5764659" "5765206" "5774694" "5787493" "5793714" "5796984" "5796566" "5802052" "5805473" "5815686" "5819015" "5822784" "5832299" "5842011" "5852720" "5857074" "5862083" "5867096" "5896393" "5910876" "5913052" "5940850" "5965860" "5973964" "5982371" "5983309" "6049866" "6052524" "6052383" "6055651" "6063131" "6070224" "6078520" "6106565" "6115813").pn. | USPAT | OR | OFF | 2005/06/24 12:04 |
| S87 | 48 | ("5918056" "6052685" "6240417" "4954942" "5278962" "5392420" "5623673" "5682310" "5970237" "6128732" "6212614" "6212614" "6397242" "6397379" "6446094" "5642491" "5815727" "5937185" "5953520" "5325512" "5590342" "5706407" "5909696" "6223284" "6223284" "4591967" "4611286" "4794522" "4812981" "4851828" "4888688" "4954968" "4975872" "5063499" "5056013" "5226154" "5278961" "5289581" "5289587" "5325469" "5357628" "5369749" "5369767" "5390314" "5438674" "5440710" "5452454" "5455926" "5485614" "5530673").pn. | USPAT | OR | OFF | 2005/06/24 12:04 |
| S85 | 146 | 717/138.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 12:03 |
| S83 | 60 | suspend with translation | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 11:43 |

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|-----|------|--|---|----|-----|------------------|
| S82 | 2 | translation same (operand adj setting) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 11:38 |
| S81 | 71 | S69 and (store with instruction) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 11:16 |
| S69 | 230 | (instruction adj set adj simulat\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 11:14 |
| S80 | 1 | binary with translats\$4 with (indirect in-direct) with address\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 11:12 |
| S79 | 146 | translat\$4 with (indirect in-direct) with address\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 11:12 |
| S78 | 9 | S77 and stream | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 11:10 |
| S76 | 15 | resume adj translation | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 10:34 |
| S75 | 0 | resume adj tranlation | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 10:34 |
| S74 | 229 | S73 and (simulat\$4 emulat\$4 model\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 10:33 |
| S73 | 379 | S70 and S72 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 10:31 |
| S72 | 2648 | ((in-direct indirect) adj address\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 10:30 |

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|-----|------|---|---|----|-----|------------------|
| S71 | 18 | S69 and S70 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 10:27 |
| S70 | 8291 | (instruction byte operand) with align\$8 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 10:17 |
| S68 | 1 | "09/992137" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 10:16 |
| S67 | 36 | ("5560013").URPN. | USPAT | OR | OFF | 2005/06/24 09:59 |
| S66 | 23 | S64 and S65 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/24 09:53 |
| S65 | 33 | S63 and (emulation (instruction adj set adj simulat\$4)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/24 09:53 |
| S64 | 61 | S62 and (store with instruction) and (execution with (suspens\$6 resum\$5 stop\$4 start\$4)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/24 09:52 |
| S63 | 168 | S62 and (store with instruction) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/24 09:51 |
| S62 | 802 | "S/390" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/24 09:51 |
| S2 | 798 | "S/390" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/24 09:51 |
| S61 | 14 | (legacy with instruction) and (emulat\$4) and (execution with (suspens\$6 resum\$5 stop\$4 start\$4)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/24 09:35 |

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|-----|-------|---|---|----|-----|------------------|
| S60 | 17 | (US-20040194070-\$).did. or (US-4638423-\$ or US-5301302-\$ or US-5546552-\$ or US-5560013-\$ or US-5577233-\$ or US-5751982-\$ or US-5790825-\$ or US-5933622-\$ or US-6009261-\$ or US-6075937-\$ or US-6142682-\$ or US-6516295-\$ or US-6704925-\$ or US-6785801-\$ or US-6243668-\$ or US-5577231-\$).did. | US-PGPUB; USPAT | OR | OFF | 2005/06/23 18:27 |
| S59 | 2 | (dynamic adj object adj code adj translation).ti. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/23 13:52 |
| S58 | 15 | S57 and modifi\$6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 21:09 |
| S57 | 17 | (US-20040194070-\$).did. or (US-4638423-\$ or US-5301302-\$ or US-5546552-\$ or US-5560013-\$ or US-5577233-\$ or US-5751982-\$ or US-5790825-\$ or US-5933622-\$ or US-6009261-\$ or US-6075937-\$ or US-6142682-\$ or US-6516295-\$ or US-6704925-\$ or US-6785801-\$ or US-6243668-\$ or US-5577231-\$).did. | US-PGPUB; USPAT | OR | OFF | 2005/06/22 21:08 |
| S56 | 194 | S55 and (TLB with (size index)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 20:32 |
| S55 | 1206 | (instruction with translation) and (TLB) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 20:32 |
| S54 | 1 | (instruction with translation) and (block adj tracking adj table) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 20:32 |
| S11 | 1 | "09/992130" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 20:31 |
| S53 | 17126 | fujitsu.as. | USPAT | OR | OFF | 2005/06/22 16:24 |
| S52 | 190 | amdahl.as. | USPAT | OR | OFF | 2005/06/22 16:24 |
| S51 | 7 | (instruction with translat\$5) and hotspot | USPAT | OR | OFF | 2005/06/22 16:18 |
| S50 | 1 | ("6516295").URPN. | USPAT | OR | OFF | 2005/06/22 16:11 |
| S49 | 23 | legacy with instruction with translation | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 16:01 |
| S48 | 110 | translation adj index\$5 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 16:00 |
| S47 | 61 | S16 and (translation with (flag set indicator)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 15:58 |

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|-----|------|---|---|----|-----|------------------|
| S46 | 5 | S16 and (translation with (done complet\$4) with (flag set indicator)) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 15:50 |
| S16 | 715 | S7 or S9 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 15:48 |
| S45 | 82 | S44 and S41 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 15:44 |
| S44 | 581 | (dynamic with translation) and index\$5 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 15:44 |
| S43 | 25 | S15 and S41 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 15:43 |
| S15 | 206 | instruction adj set adj simulat\$4 | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 15:40 |
| S42 | 172 | ((instruction with translation) and (index\$5 with (block table) with translation)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 15:31 |
| S41 | 1192 | ((instruction with translation) and (block with translation)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 15:31 |
| S37 | 2551 | (instruction and (block with translation)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 15:30 |
| S40 | 119 | S39 and index with table | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 15:24 |
| S39 | 470 | S38 and table | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 15:24 |
| S38 | 545 | S37 and emulat\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 15:24 |
| S7 | 317 | (703/26).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 15:22 |
| S28 | 214 | (instruction with translat\$5 with (index flag table)) and (emulat\$4) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 14:26 |

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| S27 | 366 | (instruction with translat\$5 with (index flag table)) and (emulat\$4 simulat\$4 model\$4) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 14:03 |
| S26 | 861 | (instruction with translat\$5 with (index flag table set)) and (emulat\$4 simulat\$4 model\$4) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 14:03 |
| S25 | 18148 | (translat\$5 with (index flag table set)) and (emulat\$4 simulat\$4 model\$4) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 13:33 |
| S21 | 190 | S16 and flag | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 13:31 |
| S23 | 1 | S16 and (block with transform) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 13:27 |
| S24 | 1 | S23 and address | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 13:26 |
| S19 | 63 | S16 and (table with index) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 13:26 |
| S22 | 11 | S16 and translation with flag | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 13:13 |
| S20 | 15 | S16 and ((table with index) same translat\$5) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 13:13 |
| S18 | 245 | S17 and (translat\$5) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 12:24 |
| S17 | 433 | S16 and (table or index) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 12:24 |
| S14 | 9 | ("4574344" "4635188" "4638423" "4761733" "5333287" "5406644" "5430862" "5481693" "5546552").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/22 11:45 |
| S13 | 18 | S12 and (store with instruction) | USPAT | OR | OFF | 2005/06/22 10:30 |
| S12 | 33 | ("4638423").URPN. | USPAT | OR | OFF | 2005/06/22 10:29 |
| S8 | 82 | S7 and (instruction with translat\$) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 10:22 |
| S10 | 58 | S9 and (instruction with translat\$) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 10:17 |
| S9 | 484 | 703/27.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/22 10:17 |
| S6 | 2 | ("5313614" "5404478").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/21 12:05 |

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| S5 | 19 | "S/390" with emulat\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/21 12:05 |
| S4 | 116 | S2 and emulat\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/21 12:04 |
| S3 | 4 | "S/390" with legacy with instruction | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/21 12:04 |
| S1 | 165 | legacy with instruction with (translation emulat\$4 simulat\$4 execut\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/06/21 12:03 |

[illegible]

with other versions of SimpleScalar. We accomplish this by performing dynamic binary translation of the PowerPC instruction set architecture to the SimpleScalar instruction set architecture, and by ...

- 12** Emerging applications: Obliviousness of executable code to improve resistance to static disassembly
Cullen, M., Saumya Debroy
October 2000
Proceedings of the 10th ACM conference on Computer and communications security
November 2000
Address: Information: LA 00000, ADDRESS: OFFICE, 0000, 0000

A great deal of software is distributed in the form of executable code. The ability to reverse engineer such executables can create opportunities for theft of intellectual property via software piracy, as well as security breaches by allowing attackers to discover the inner workings of an application. The process of reverse engineering is often a laborious task, and one that is often done with the aid of specialized machine code to assembly code. This is then followed by various decompilation steps that at ...

Keywords: code obfuscation, disassembly

- 13** A language-based design for portable data files
C. Burch
May 1998
ACM SIGPLAN Notices, Volume 24 Issue 5
Address: Information: LA 00000, ADDRESS: OFFICE, 0000, 0000

Currently data files to be accessed remotely from dissimilar systems must be transformed to the local language processors' file format and data representation; a process that has changed little since punch cards were the main form of portable data files. A standard is proposed for languages to use the data type information available to the runtime library to make these data transformations before the data is transferred to the file or the user's variables. By specifying one binary format for each ...

- 14** Draft Proposal: American National Standard—Graphical Kernel System
Technical Committee X313 - Computer Graphics
February 1984
ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1
Address: Information: LA 00000, ADDRESS: OFFICE, 0000, 0000

- 15** Vectorization for SIMD architectures with alignment constraints
Alexandre E. Eichenberger, Peng Wu, Kevin O'Brien
June 2001
ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 2004 conference on
Address: Information: LA 00000, ADDRESS: OFFICE, 0000, 0000

When vectorizing for SIMD architectures that are commonly employed by today's multimedia extensions, one of the new challenges that arise is the handling of memory alignment. Prior research has focused primarily on vectorizing loops where all memory references are properly aligned. An important aspect of this problem, namely, how to vectorize misaligned memory references, still remains unaddressed. This paper presents a compilation scheme that systematically vectorizes loops in the presence of misaligned memory references.

Keywords: SIMD, alignment, compiler, multimedia extensions, simdization, vectorization

- 16** A.C. language extension for machine-independent programming
Shingo Kamiya, Toshiyuki Yoshida, Takao Sugiyasu, Koki Miyazawa
December 1999
Proceedings of the 1999 ACM SIGSMALL/PC symposium on Small systems
Address: Information: LA 00000, ADDRESS: OFFICE, 0000, 0000

MIC (Machine-Independent C) is an extension of the C language which has been designed to write portable programs as installed in various small computers. MIC provides unified semantics suitable for typical small computers with new facilities for machine-independent data definition, and its syntax conforms to the preliminary draft of the proposed ANSI standard for C. It is fully implemented as a compiler front end called MICP, and has been applied to actual programming. The principal feature ...

- 17** Compiler transformations for high-performance computing
David F. Bacon, Susan L. Graham, Oliver J. Sharp
December 1994
ACM Computing Surveys (CSUR), Volume 26 Issue 4
Address: Information: LA 00000, ADDRESS: OFFICE, 0000, 0000

In the last three decades a large number of compiler transformations for optimizing programs have been implemented. Most optimizations for uniprocessors reduce the number of instructions executed by the program using transformations based on the analysis of scalar quantities and data-flow techniques. In contrast, optimizations for high-performance superscalar, vector, and parallel processors maximize

parallelism and memory locality with transformations that rely on tracking the properties of ...
Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, superscalar processors, vectorization

- 18** Efficient wire formats for high performance computing
Fabien E. Bustamante, Greg Eisenhauer, Kristian Schwab, Patrick Widener
November 2000
Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CORUM)
November 2000
Address: Information: LA 00000, ADDRESS: OFFICE, 0000, 0000

High performance computing is being increasingly utilized in non-traditional circumstances where it must interoperate with other applications. For example, the use of real-world sensors for the progress of applications, and real-world sensors are used as inputs to simulations. Whenever these situations arise, there is a question of what communications infrastructure should be used to link the different components. Traditional HPC-style communications systems such as MPI offer ...

- 19** Retrospective: what have we learned from the PDP-11—what we have learned from VAX and Alpha
Alvin Bell, W. D. Stoecker
April 1998
25 years of the international symposium on Computer architecture (selected papers)
Address: Information: LA 00000, ADDRESS: OFFICE, 0000, 0000

- 20** Randomized instruction set emulation
Elena Gabriela Barrantes, David H. Ackley, Stephanie Forrest, Darko Stefanovic
February 2005
ACM Transactions on Information and System Security (TISSEC), Volume 8 Issue 1
Address: Information: LA 00000, ADDRESS: OFFICE, 0000, 0000

Injecting binary code into a running program is a common form of attack. Most defenses employ a "guard the doors" approach, blocking known mechanisms of code injection. Randomized instruction set emulation (RISE) is a complementary method of defense, one that performs a hidden randomization of an application's machine code. If foreign binary code is injected into a program running under RISE, it will not be executable because it will not know the proper randomization. The paper ...

Keywords: Automated diversity, randomized instruction sets, software diversity

Results 1 - 20 of 200

Result page: 1 2 3 4 5 6 7 8 9 10 next

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This paper discusses the design of a real-time computer. The computer's design requirements, design decisions, and architecture are summarized. The paper discusses how the design requirements influenced the computer architecture. The system's three upward compatible addressing options (real, base, virtual) are also discussed.

Keywords: code compaction, performance code abstraction

- 11 **Dynamic translation: Retargetable and reconfigurable software dynamic translation**
K. Scott, N. Kumar, S. Velusamy, B. Childers, J. W. Davidson, M. L. Soffa
November 2003
Proceedings of the international symposium on code generation and optimization: feedback-directed and runtime optimization

Full text available: [Full Text](#)

Software dynamic translation (SDT) is a technology that permits the modification of an executing program's instructions. In recent years, SDT has received increased attention, from both industry and academia, as a feasible and effective approach to solving a variety of significant problems. Despite this increased attention, the task of initiating a new project in software dynamic translation remains a difficult one. To address this concern, and in particular, to promote the adoption of SDT techn...

- 12 **Optimizations and code parallelism with dynamic translation**
Kemal Eboçlu, Erik R. Altman, Michael Gschwind, Sumedh Sahay
November 2003
Proceedings of the 32nd annual ACM/IEEE international symposium on microarchitecture

Full text available: [Full Text](#)

We describe several optimizations which can be employed in a dynamic binary translation (DBT) system, where low compilation/translation overhead is essential. These optimizations achieve a high degree of ILP, sometimes even surpassing a static compiler employing more sophisticated, and more time-consuming algorithms [9]. We present results in which we employ these optimizations in a dynamic binary translation system capable of computing code parallelism.

- 13 **RILE: An Architectural Framework for User-Centric Information-Flow Security**
Neil Vachharajani, Matthew J. Bridges, Jonathan Chang, Ram Rangan, Guilherme Ottoni, Jason A. Blome, George A. Reis, Manish Vachharajani, David I. August
November 2003
Proceedings of the 37th annual international symposium on microarchitecture

Full text available: [Full Text](#)

Even as modern computing systems allow the manipulation and distribution of massive amounts of information, users of these systems are unable to manage the confidentiality of their data in a practical fashion. Conventional access control security mechanisms cannot prevent the illegitimate use of privileged data once access is granted. For example, information provided by a user during an online purchase may be covertly delivered to malicious third parties by an untrustworthy web browser. Etc...

- 14 **An architectural framework for migration from CISC to higher performance platforms**
Gabriel H. Siberman, Kemal Eboçlu
August 2003
Proceedings of the 6th international conference on supercomputing

Full text available: [Full Text](#)

We describe a novel architectural framework that allows software applications written for a given Complex Instruction Set Computer (CISC) to migrate to a different, higher performance architecture, without a significant investment on the part of the application user or developer. The framework provides a hardware mechanism for seamless switching between two instruction sets, resulting in a machine that enhances application performance while keeping the same program behavior (from a user perspective) ...

- 15 **Migrating a CISC computer family onto RISC via object code translation**
Kirsty Andrews, Duane Sind
November 2003
ACM SIGPLAN Notices : Proceedings of the fifth international conference on architectural support for programming languages and operating systems, Volume 27

Full text available: [Full Text](#)

- 16 **An advanced technical computer concept**
Kirsty Andrews, Duane Sind
November 2003
ACM SIGARCH Computer Architecture News : Proceedings of the 4th annual symposium on computer architecture, Volume 3 Issue 7

Full text available: [Full Text](#)

This paper discusses the design of a real-time computer. The computer's design requirements, design decisions, and architecture are summarized. The paper discusses how the design requirements influenced the computer architecture. The system's three upward compatible addressing options (real, base, virtual) are also discussed.

- 17 **Dynamic translation: The Transmeta Code Morphing™ Software: using speculation, recovery, and adaptive retranslation to address real-life challenges**
John C. Chien, Brian K. Grant, John P. Benning, Richard Johnson, Thomas Kistler, Alexander Kluber, Jim Mattson
March 2003
Proceedings of the international symposium on code generation and optimization: feedback-directed and runtime optimization

Full text available: [Full Text](#)

Transmeta's Crusoe microprocessor is a full, system-level implementation of the x86 architecture, comprising a native VLIW microprocessor with a software layer, the Code Morphing Software (CMS), that combines an interpreter, dynamic binary translator, optimizer, and runtime system. In its general structure, CMS resembles other binary translation systems described in the literature, but it is unique in several respects. The wide range of PC workloads that CMS must handle gracefully in real ...

Keywords: binary translation, dynamic optimization, dynamic translation, emulation, self-modifying code, speculation

- 18 **Limitations on the portability of real time Ada programs**

T. Griest, m. Bender
January 1988
Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment

Full text available: [Full Text](#)

This paper describes areas of the Ada language where portability is restricted by the fact that implementations of the language have been developed previously for the 2.3.10, but have taken the approach that only features of the language which are supported by all implementations should be used. The "common intersection" approach rules out use of many features that were included in Ada because they are required for real-time ...

- 19 **A search algorithm and data structure for an efficient information system**

September 1988
Proceedings of the 1989 conference on Computational linguistics

Full text available: [Full Text](#)

This paper describes a system for information storage, retrieval, and updating, with special attention to the search algorithm and data structure. The system is designed to be efficient in terms of both efficiency and especially warranted when a natural language or a symbolic language is involved in the searching process. The system is a basic framework for an efficient information system. It can be implemented for text processing and document retrieval; numerical data retrieval; and for handling of ...

- 20 **An underway strategy for indirect routing**

Almeida Camero Viana, Marcelo Dias de Amorim, Sarge Félida, José Ferreira de Rezende
November 2004
Wireless Networks, Volume 10 Issue 6

Full text available: [Full Text](#)

The evolution of the Internet toward ubiquity, mobility, and independence of wired infrastructure requires revisiting routing in large dynamic clouds. The need for frequent address coordination by node mobility suggests decoupling the permanent node identifier from its topological address. This paper proposes Tribe, an indirect and scalable routing protocol for self-organizing networks. Tribe provides an anchor-based abstraction, where the communication is split into two phases: location of ...

Keywords: indirect routing, peer-to-peer communication, self-organization

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